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CPTO

1. A 5-direction key operating device in which diaphragms respectively corresponding to five directions are proximately arranged in a shape of a cross, which comprises pushers corresponding to the five directions on a key core face opposed to the diaphragms, and in which a single key is enabled to perform key operations of the five directions, and characterized in that

each of diaphragm contacts which are disposed on a printed circuit board opposed to the diaphragms is structured to have a first contact, and at least one second contact surrounding the first contact, at least one strip-like contact portion which are elongated from each of the second contact to a side opposite to a side of the first contact is disposed in the second contact, and

the diaphragm contacts are arranged on the printed circuit board in a shape of a cross correspondingly with the five directions with tilting the strip-like contact portions of the diaphragm contacts by about 45 degrees to vertical and horizontal directions.

2. The 5-direction key operating device according to claim 1, wherein the strip-like contact portions are elongated in a fan-like shape with respect to a center of the first contact.

3. The 5-direction key operating device according to claim

1, wherein the strip-like contact portions are rectangular.

4. A 5-direction key operating device characterized in that five diaphragms are proximately arranged in a shape of a cross, pusher portions are disposed on a key core face opposed to the diaphragms, and a structure of a center pusher portion is different from a structure of pusher portions surrounding the center pusher portion.

5. (AMENDED) The 5-direction key operating device according to claim 4, wherein a height of the center pusher portion from the diaphragm is different from a height of the surrounding pusher portions from the respective diaphragms.

6. (AMENDED) The 5-direction key operating device according to claim 4, wherein a shape of the center pusher portion is different from a shape of the surrounding pusher portions.

7. (AMENDED) The 5-direction key operating device according to claim 4, wherein a cross-sectional diameter of the center pusher portion is different from a cross-sectional diameter of the surrounding pusher portions.

8. (AMENDED) The 5-direction key operating device according to claim 4, wherein one of a rib and a boss stands from an arbitrary position of the key core face which comprises

the pusher portions.

10. (AMENDED) The 5-direction key operating device according to claim 9, wherein one of a width and thickness of the key skirt portion is changed.

11. (AMENDED) The 5-direction key operating device according to claim 9, wherein a shape of the key skirt portion is changed.

12. A 5-direction key operating device characterized in that five diaphragms are proximately arranged in a shape of a cross, and a load on a center diaphragm is changed from loads on surrounding diaphragms.

13. (AMENDED) The 5-direction key operating device according to claim 12, wherein pusher portions are disposed on a key core face opposed to the diaphragms, and a structure of a center pusher portion is different from a structure of pusher portions surrounding the center pusher portion.

14. (AMENDED) The 5-direction key operating device according to claim 13, wherein one of a rib and a boss stands from an arbitrary position of the key core face on which the pusher portions exist.

15. (AMENDED) The 5-direction key operating device according to claim 12, wherein a structure of the key skirt portion which is formed in a periphery of the key core face opposed to the diaphragms is changed.

16. (AMENDED) The 5-direction key operating device according to claim 12, wherein pusher portions are disposed on the key core face opposed to the diaphragms, a structure of a center pusher portion is different from a structure of pusher portions surrounding the center pusher portion, and a structure of the key skirt portion which is formed in a periphery of the key core face opposed to the diaphragms is changed.